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NPIC/TSSG/RED-1909/69  
4 November 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group

ATTENTION

[REDACTED]

PPS/TSSG

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SUBJECT : RED Monthly Report on Significant Events (October 1969)

A. Significant Items of Interest for October 1969.

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1. Precision Enlarger - On 13 October 1969 a second [REDACTED] Precision Enlarger was installed in the Photographic Laboratory.
2. Twin-Stage On-Line P.I. Comparator - On 22 October 1969 the Twin-Stage On-Line P.I. Comparator was delivered and installed in TSSG/ESD.
3. Visit [REDACTED] On 29 and 30 October 1969 RED personnel visited [REDACTED] to discuss Color in terms of anticipated volumes, equipment, processes, etc.
4. High-Speed Dry Silver Processors - The three High-Speed Dry Silver Processors have performed satisfactorily for the factory acceptance tests. Two of these processors (#2 and #3) are scheduled to be shipped [REDACTED] for a 6- to 12-month T&E program. Processor #1 will remain as GFE at the contractors facility in support of the testing program and for checking the performance of the materials produced for the program.

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It is expected that 1,000 square yards of grade #1 reproduction material will be available to initiate the program. About 1,000 yards will be available each month until February when this rate will speed up by 1,000 yards per month until the total of approximately 9,000 yards have been delivered.

5. Precise Mensuration Equipment - The breadboarded electronics and optics for the calibration device for the Precise Mensuration equipment has been demonstrated to operate as planned and proves out the concept for further development. Proposals have been received for the fabrication of a prototype device for specific testing.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

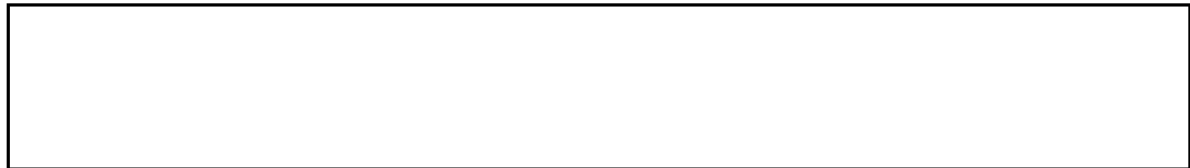
Declass Review by NIMA/DOD.

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7. Briefing [redacted] - On 28 October [redacted] briefed NPIC, IAS and SPAD personnel on the results of the "Photographic and Line-Scan Imagery Experimentation" project.

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8. Review of Imagery Interpretation Research Program - On 30 and 31 October, a comprehensive technical review of the [redacted] "Imagery Interpretation Research Program" was held among Center personnel, NPIC human factors consultants, and [redacted] personnel.

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9. Modifications to the Microdensitometer - The modifications to the Microdensitometer--made [redacted] were accepted.

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10. Digitized Measuring Light Table - The Digitized Measuring Light Table is now working. The initial test results are very encouraging.

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11. Model II Split-Format [redacted] Light Tables - Two contracts for the fabrication of a Model II Split-Format [redacted] Light Table, one with [redacted] were approved.

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12. Dual-Viewing Light Table Contract - The first production unit (pre-production prototype) of the Dual-Viewing Light Table contract was accepted and delivered to NPIC.

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13. Overrun Approval - An overrun [redacted] to complete development of an Advanced Wide-Span Stereo Rhomboids prototype was approved [redacted] is now working on the contract.

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14. Modification of [redacted] Chip Comparators - A contract [redacted] to modify six [redacted] Chip Comparators was approved. T&M, [redacted] est.

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15. Evaluation of Fiber-Optics Viewer - A contract [redacted] to evaluate a Fiber-Optics Viewer was approved. T&M, [redacted] est.

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16. Evaluation of Prototype Binocular Tube Magnifier - A prototype of the Binocular Tube Magnifier was received [ ] for further evaluation.

17. High Precision Stereo Comparator Program [ ] the optical subcontractor, has informed [ ] that the optical system will not be ready for acceptance tests until the end of December. These tests were originally scheduled for mid-December. [ ] technical director, spent two days at NPIC co-ordinating with PHD, AID, and APSD on computer programming for the comparator [ ] has submitted the maintenance proposal for the comparator and this has been turned over to ESD.

18. Ground Truth Field Survey - The Ground Truth field survey work for the IEG/PHD In-House Precise Measurement Study is 75% complete. [ ] the contractor for this task, expects to complete the field survey work early in November and submit the final report in December 1969.

19. Stereo Mensuration Tests (Task 6) - IEG/PHD has requested that RED supply contractor support to run the Stereo Mensuration Tests (Task 6) under the In-House Precise Measurement Study. [ ] has been invited to review these requirements and submit a bid.

20. Automatic Stereo Scanner - The 15-week bench test of the re-designed optical system was successfully concluded on 24 October 1969 with an RED test of the optical system and delivery of [ ] test report. RED's consultant, [ ] assisted in the test and will furnish a written report shortly.

Most of the test results exceeded the design goals and only minor deficiencies were discovered [ ] costs overran their budget by some [ ] due entirely to the previously reported escalation of the company's overhead and G&A. Direct labor hours underran the budget by approximately 5%.

A complete briefing on the project for the Executive Director, NPIC, is in preparation and will be available early in November. RED recommendations for follow-on will be included.

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- 25X1A 21. Image Comparison Microstereoscope - The previously requested overrun funds in the amount of [ ] were approved and made available [ ] to continue the project [ ] is in the final stages of sub-assembly work and delivery is still scheduled for March 1970. NPIC Test & Evaluation personnel received full briefings on the project as background for preparation of their test plan. A briefing on the development is scheduled for EXRAND on 12 November 1969. 25X1A
- 25X1A 22. [ ] Grant Program - The grant agreement in the amount [ ] was approved and sent [ ] 25X1A
23. Dual Gamma Mensuration Study - Results of preliminary data analysis reveal no significant difference in mensuration of small objects between dual gamma and [ ] processed imagery. The draft final report was mailed from the contractor on 27 October 1969. 25X1A
- 25X1A 24. Feasibility Study [ ] Negative-Positive Viewer - Experiments demonstrated that this technique is not feasible for use with high resolution films [ ] It is only marginal when used with other films. 25X1
25. Varityper Processing Evaluation - This evaluation indicated that PSG can achieve photographic results with the Varityper using bulk developers on-hand in the Center which compare with those obtained from specially procured more costly developer.
26. Imagery in Stripped Film Base - The latest batch of [ ] supplied stripped film base produced no residual imagery when subjected to the special photo-chemical processing. 25X1A
- B. Anticipated Items of Interest for November 1969.
- 25X1A 1. Phase II of the [ ] Human Factors Contract - On 21 November 1969 the [ ] Human Factors contract is scheduled to enter Phase II after the completion of all Phase I tasks. 25X1A

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C. See attachment 1 [redacted] for the report of  
RED/[redacted] significant events for October 1969.

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[redacted]  
Deputy Chief, Research & Engineering Division

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Attachment:

[redacted]

Distribution:

- 1 - TSSG w/att. 1
- 2 - RED/TSSG w/o att. ✓

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